CONSTRUCTION SEQUENCE

1.) All earth disturbance activities shall proceed in accordance with the following sequence. Each stage shall be completed in compliance with Chapter 102 regulations before any following stage is initiated. Clearing and grubbing shall be limited only to those areas described in each stage.

2.) At least 7 days before starting any earth disturbance activities, the operator shall invite all contractors involved in those activities, the landowner, all appropriate municipal officials, the erosion and sedimentation control plan preparer, and a representative of the Chester County Conservation District to schedule an on-site pre-construction meeting. The contractor shall verify locations and depths of all existing utilities prior to start of work.

3.) Before implementing any revisions to the approved erosion and sediment controlplan or revisions to other plans which may affect the effectiveness of the approved E&S controlplan, the operator must receive approval of the revisions from the Chester County Conservation District.

4.) The operator shall remove from the site, recycle or dispose of all building materials and wastes in accordance with the Department's Solid Waste Management Regulations at 25 PA Code 260.1 et seq., 271.1 et. seq. and 287.1 et seq.

5.) Install rock construction entrance as shown on plan.

6.) Install all super silt fence and tree protection fence as shown on plan.

7.) Install protective fence around proposed underground infiltration bed foot print as shown on plan.

8.) Construct the embankment type sediment trap along with temporary swales connecting drainage to trap. Ensure that the trap and swales are stabilized and functioning properly prior to any further earth disturbance activities.

9.) Clear and grub areas to receive improvements.

10.) Construct underground infiltration basin as follows:

a. Prior to construction infiltration basin areas shall be marked off in the field. The areas shall be delineated with construction fencing or tape in such a manner to prevent the parking or repeated movement of construction equipment across the infiltration areas.

b. Strip topsoil in infiltration basin foot print area, stockpile and stabilize.

c. Prior to infiltration bed grading and placement of geotextile, upgradient areas shall be sufficiently stabilized to prevent the washing of sediment into the recharge areas. It is the contractor's responsibility to prevent the deposition of sediment or sediment-laden waters into the infiltration structures after final grading.

d. Excavate basin area making sure the existing subgrade under the infiltration bed is NOT compacted or subject to excessive construction equipment traffic prior to placement of geotextile fabric and stone bed.

e. All bed bottoms shall be level after final grading.

f. Upon approval of final subgrade preparation, geotextile and infiltration bed aggregate shall be placed immediately. Any accumulation of debris or sediment which has taken place after approval of subgrade shall be removed prior to installation of geotextile at no extra cost to the owner. Where erosion has caused accumulation of fine materials and/or surface ponding, this material shall be removed with light equipment and the underlying soils scarified to a minimum depth of six inches (6") with a York rake and light tractor.

g. If bed rock, groundwater or any other unfavorable conditions are encountered at any time during the excavation of the infiltration bed, excavation shall be discontinued in the affected area and the owner and engineer notified immediately. The owner/and or engineer shall investigate and recommend a more suitable location on the property..

h. Place geotextile in accordance with manufacturer's standards and recommendations . Adjacent strips of geotextile shall overlap a minimum of twelve (12) inches. Secure fabric at least four (4) feet outside of bed and take steps necessary to prevent any sediment from entering trench.

i. Aggregate shall be clean with wash loss of no more than 0.5 percent. Installation of aggregate shall be observed by the design engineer prior to installation into the infiltration BMP to ensure that it is clean washed stone. Aggregate that does not meet this criteria will be removed at no extra cost to the owner and the beds restored to the owner's satisfaction.

j. Install perforated and solid infiltration system piping, inlet boxes and outlet structure. Temporarily cap all pipe ends, inlets and outlet structure to assure drainage and sediment does not enter system during remaining site construction.

k. Following placement of bed aggregate, back fill sides and top of pipe with clean washed aggregate as specified above making sure to over lap geotextile fabric twelve (12) inches at top to protect from sediment washout along bed edges. Backfill on top of basin with two (2) feet minimum of soil and/or topsoil and stabilize.

l. Install protective fencing around basin area.

11.) Strip and stockpile remaining topsoil, seed, mulch and install silt fence around same.

12.) Rough grade the site and immediately mulch and/or place erosion control blankets on all slopes steeper than 3:1 and swales. Apply seeding prior to placing erosion controlblankets.

13.) Begin construction of the building.

14.) Construct underground site utilities including new water service line: sanitary lateral, lift station and force main, steam line and electrical service...

15.) Construct the entrance drive and parking area, curbing and sidewalk.

16.) Complete construction and perform final site grading. Apply topsoil, permanent seeding, landscaping and mulch.

17.) Remove any accumulated sediment from filter fencing and stabilize elsewhere on site.

18.) After uphill areas have been stabilized with a minimum of 80% vegetative cover, remove caps on infiltration basin pipes or inlets and install remaining pipe sections, flared end sections, and wall and rock rip rap apron. Regrade swales to flow to flared ends sections and stabilize with seed and erosion blankets.

19.) Prior to removal of temporary sediment trap, notify Chester County Conservation District for a site inspection and approval.

20.) Remove temporary erosion control measures, including temporary sediment trap, after all disturbed areas are stabilized with a minimum of 80% vegetative cover. Restabilize all areas disturbed due to the removal of temporary erosion control facilities.

21.) Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to eliminate potential for accelerated erosion and/or sediment pollution.

Stormwater Control and BMP Operations and Maintenance

Person responsible for operations and maintenance activities of proposed BMP's:

Contact: Kevin Glover, Project Manager
Department of Veterans Affairs Medical Center
Maintenance Department
Coatesville, PA 19320
Ph: 610-384-7711
email: kevin.glover@va.gov

O&M Schedule and Procedures

Owner/Operator shall inspect all stormwater conveyance pipes and inlets on a bi-annual basis (minimum) and remove debris from inlet grates and accumulated sediment within the infiltration basin system pipes and inlets.

Infiltration Basin

1. The Owner/Operator shall inspect all storm water facilities on a bi-annual basis or following significant rain falls (.50 to the 100 year storm events) or signs of erosion or deterioration or obstruction. Any deterioration or erosion must be repaired immediately. All areas will be filled, compacted, seeded and stabilized. Mowing and/or trimming of vegetation around basin intake pipes should be performed as necessary to sustain the system. Accumulated sediment in inlets and catch basins or pipes shall be removed and when the structures are completely dry. All sediment shall be disposed of properly off site to a certified disposal facility. Remove any ordinary innocuous debris that may obstruct the proper basin operation, and maintenance of the structural integrity and repair of all outlet pipes, wall structures, and other permanent structural devices.

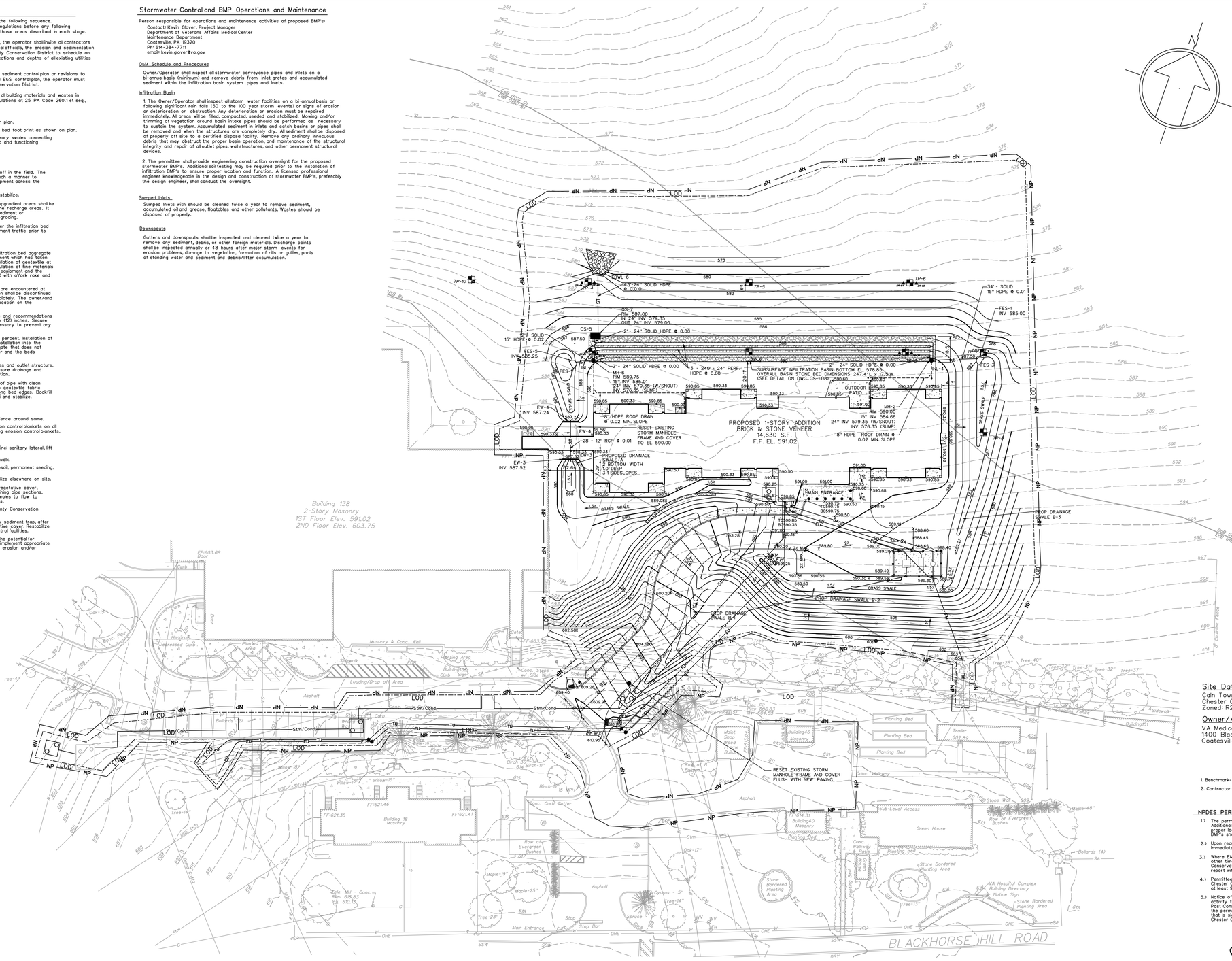
2. The permittee shall provide engineering construction oversight for the proposed stormwater BMP's. Additional soil testing may be required prior to the installation of infiltration BMP's to ensure proper location and function. A licensed professional engineer knowledgeable in the design and construction of stormwater BMP's, preferably the design engineer, shall conduct the oversight.

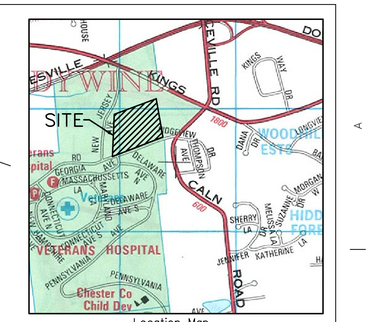
Sumped Inlets

Sumped Inlets with should be cleaned twice a year to remove sediment, accumulated oil and grease, floatables and other pollutants. Wastes should be disposed of properly.

Downspouts

Gutters and downspouts shall be inspected and cleaned twice a year to remove any sediment, debris, or other foreign materials. Discharge points shall be inspected annualy or 48 hours after major storm events for erosion problems, damage to vegetation, formation of rills or gullies, pools of standing water and sediment and debris/litter accumulation.





Location Map
Scale: 1" = 1000'

Legend

- Existing Building
- Existing Curb
- Proposed Curb
- Existing Edge of Pavement (EOP)
- Existing Index Contour Line (195)
- Existing Contour Line (191)
- Existing Water Line (W)
- Proposed Water Line with Valve (W)
- Existing Sanitary Sewer (SA)
- Proposed Sanitary Sewer (SA)
- Existing Storm Sewer
- Proposed Storm Sewer (ST)
- Existing Electric (UGE)
- Proposed Electric (EU)
- Proposed Telecom (T)
- Existing Steam (Stm)
- Proposed Steam and Condensate (Stm/Cond)
- Existing Edge of Vegetation
- Existing Trees
- Existing Fire Hydrant (FH)
- Existing Utility Pole
- Existing Lighting
- Proposed Bulding
- Proposed Asphalt
- Proposed Sidewalk
- Proposed Contour Line (574)
- Proposed Index Contour Line (575)
- Proposed Outlet Protection (R-4)
- Limit of Disturbance & NPDES Permit Boundary (LOD)
- Test Pit Location and Number (TP-2)
- Soil Type and Delineation (CaB (HSG C) EdB (HSG B))

Site Data:

Caln Township
Chester County, PA
Zoned: R2 Residential District

Owner/Applicant:

VA Medical Center
1400 Blackhorse Hill Road
Coatesville, PA 19320

General Notes

1. Benchmark: Storm Manhole Rim East of Bldg 138, El. 606.53
2. Contractor shall verify all existing utility locations on-site prior to start of construction.

NPDES PERMIT NOTES

1.) The permittee shall provide engineering construction oversight for the proposed BMP's. Additional soil testing may be required prior to installation of infiltration BMP's to insure proper location and function. A licensed engineer knowledgeable in the design of stormwater BMP's shall conduct the oversight.

2.) Upon reduction, loss or failure of the BMP, the permittee and co-permittee shall take immediate action to restore the BMPs or provide an alternative method of treatment.

3.) Where E&S BMPs are found to be inoperative or ineffective during an inspection, or any other time, the permittee and co-permittee shall immediately contact the Chester County Conservation District, by phone or personal contact, followed by the submission of a written report within 5 days of the initial contact.

4.) Permittees requesting a renewal of coverage under general permit must submit to the Chester County Conservation District an administratively complete and acceptable NOI, at least 90 days prior to the expiration date of the coverage.

5.) Notice of Termination. Where all Stormwater discharges associated with construction activity that are authorized by this permit are eliminated, and BMPs identified in the Post Construction Stormwater Management (PCSM) Plan have been installed, the permittee or co-permittee of the facility must submit a Notice of Termination (NOT) form that is signed in accordance with Part B.1.c (Signatory Requirements) of this permit to the Chester County Conservation District.

ORIGINAL SOILS

GROUP	SYMBOL	NAME	DESCRIPTION	WINTER WATER TABLE	DEPTH TO BEDROCK	pH	TOPSOIL
C	CaB	CALIFON LOAM	3 TO 8 % SLOPE	POOR	18"	22"	5.6	FAIR
B	EdB	EDGEMONT CHANNERY LOAM	8 TO 15 % SLOPE	GOOD	78"+	78"+	4.8	POOR
B	GgA	GLENELG SILT LOAM	0 TO 3 % SLOPE	FAIR	78"+	78"+	5.5	FAIR
-	UrkB	URBAN LAND-EDGEMONT COMPLEX	0 TO 3 % SLOPE	-	78"+	78"+	-	-

GRAPHIC SCALE 1"= 30'

PENNSYLVANIA ONE CALL SYSTEM, INC. 1-800-242-1776 STOP CALL BEFORE YOU DIG!
Serial Number: 2861319

Act 287

ALL PARTIES UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF THE PENNSYLVANIA ACT 287 AS AMENDED BY PENNSYLVANIA ACT 199, OF 2004 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW". ALL EXISTING UNDERGROUND UTILITIES ARE TO BE CONSIDERED APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY PRIOR TO THE COMMENCEMENT OF THE SITE WORK, IN ACCORDANCE WITH ACT 287.

Revisions	Date
25% Construction Documents	02/23/10
50% Construction Documents	04/23/10
Revised per Chester Cty. SCD 1st Review	06/25/10
100% Construction Documents	06/28/10
100% Bid Documents	08/05/10

ASSOCIATES DIRECTOR PATIENT CARE	INFECTION CONTROL	SUPERVISOR M&O	PROJECT MANAGER
TEAMSTER	CONTRACTING OFFICER	GEN UTILITIES	SAFETY OFFICE
POLICE	PATIENT SAFETY	GEN PROPERTIES	SUPERVISOR PROJECT SECTION

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Drawing Title
CIVIL
POST CONSTRUCTION
STORMWATER MANAGEMENT PLAN

Project Title
CONSTRUCT HOSPICE
COATESVILLE

Date: 02-23-2010
Project No.: 542-CSI-201
DRAWING No.: CS-1.11
Dwg. Of

Approved: Chief Engineering Service
Drawn
Approved: Medical Center Director
Checked
Building Number
Location: COATESVILLE, PENNSYLVANIA